



SEQUENCE LISTING

<110> ITOH, Kyogo

<120> Tumor antigen

<130> 3190-014

<140> 10/062,257

<141> 2002-02-01

<150> PCT/JP00/05220

<151> 2000-08-03

<150> JP HEI11-222101

<151> 1999-08-05

<160> 45

<170> PatentIn Ver. 2.1

<210> 1

<211> 9

<212> PRT

<213> Homo sapiens

<400> 1

Thr Phe Asp Tyr Leu Arg Ser Val Leu

1

5

<210> 2

<211> 10

<212> PRT

<213> Homo sapiens

<400> 2

Asp Tyr Leu Arg Ser Val Leu Glu Asp Phe

1

5

10

<210> 3

<211> 9

<212> PRT

<213> Homo sapiens

<400> 3

His Tyr Thr Asn Ala Ser Asp Gly Leu

1

5

<210> 4

<211> 9

<212> PRT

<213> Homo sapiens

<400> 4

Thr Phe Glu Tyr Leu Gln Ala Phe Leu
1 5

<210> 5
<211> 9
<212> PRT
<213> Homo sapiens

<400> 5
Thr Phe Glu Tyr Ile Gln Ser Phe Leu
1 5

<210> 6
<211> 9
<212> PRT
<213> Homo sapiens

<400> 6
Thr Phe Glu Tyr Leu Gln Ser Phe Leu
1 5

<210> 7
<211> 9
<212> PRT
<213> Homo sapiens

<400> 7
Thr Phe Asp Tyr Leu Gln Ser Val Leu
1 5

<210> 8
<211> 9
<212> PRT
<213> Homo sapiens

<400> 8
Thr Phe Glu Tyr Ile Gln Ser Val Leu
1 5

<210> 9
<211> 9
<212> PRT
<213> Homo sapiens

<400> 9
Thr Phe Glu Phe Leu Gln Ser Val Leu
1 5

<210> 10
<211> 13
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Designed
peptide base on amino acid sequence of Src family
tyrosine kinases, which peptide has an ability to
generate HLA-A24 restricted cytotoxic T lymphocytes

<220>

<221> UNSURE

<222> (3)

<223> Xaa can be Asp or Glu.

<220>

<221> UNSURE

<222> (4)

<223> Xaa can be Tyr or Phe.

<220>

<221> UNSURE

<222> (5)

<223> Xaa can be Leu or Ile.

<220>

<221> UNSURE

<222> (6)

<223> Xaa can be Arg or Gln.

<220>

<221> UNSURE

<222> (7)

<223> Xaa can be Ser or Ala.

<220>

<221> UNSURE

<222> (8)

<223> Xaa can be Val or Phe.

<220>

<221> UNSURE

<222> (10)

<223> Xaa can be Glu or Asp.

<220>

<221> UNSURE

<222> (12)

<223> Xaa can be Phe or Tyr.

<220>

<221> UNSURE

<222> (13)

<223> Xaa can be Phe or Tyr.

<400> 10

Thr Phe Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Asp Xaa Xaa

1

5

10

<210> 11
<211> 9
<212> PRT
<213> Homo sapiens

<400> 11
Leu Gln Asp Asn Leu Val Ile Ala Leu
1 5

<210> 12
<211> 9
<212> PRT
<213> Homo sapiens

<400> 12
Lys Leu Val Glu Arg Leu Gly Ala Ala
1 5

<210> 13
<211> 10
<212> PRT
<213> Homo sapiens

<400> 13
Gln Leu Gln His Gln Arg Leu Val Arg Leu
1 5 10

<210> 14
<211> 9
<212> PRT
<213> Homo sapiens

<400> 14
Lys Leu Leu Asp Met Ala Ala Gln Ile
1 5

<210> 15
<211> 9
<212> PRT
<213> Homo sapiens

<400> 15
Gln Ile Ala Glu Gly Met Ala Phe Ile
1 5

<210> 16
<211> 9
<212> PRT
<213> Homo sapiens

<400> 16

Asp Val Trp Ser Phe Gly Ile Leu Leu
 1 5

<210> 17
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 17
 Ser Val Leu Glu Asp Phe Phe Thr Ala
 1 5

<210> 18
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 18
 Asp Tyr Leu Arg Ser Val Leu Asp Asp Phe
 1 5 10

<210> 19
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 19
 Arg Asn Gly Ser Glu Tyr Arg Asp Pro Leu
 1 5 10

<210> 20
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 20
 Ser Tyr Glu Pro Ser His Asp Gly Asp Leu
 1 5 10

<210> 21
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 21
 Asn Phe Val Ala Lys Ala Asn Ser Leu
 1 5

<210> 22
 <211> 9
 <212> PRT

<213> Homo sapiens

<400> 22

Ser Phe Ser Leu Ser Val Arg Asp Phe
1 5

<210> 23

<211> 9

<212> PRT

<213> Homo sapiens

<400> 23

Phe Tyr Ile Ser Pro Arg Ile Thr Phe
1 5

<210> 24

<211> 10

<212> PRT

<213> Homo sapiens

<400> 24

Leu Tyr Ala Val Val Thr Gln Glu Pro Ile
1 5 10

<210> 25

<211> 9

<212> PRT

<213> Homo sapiens

<400> 25

Glu Tyr Met Glu Asn Gly Ser Leu Val
1 5

<210> 26

<211> 9

<212> PRT

<213> Homo sapiens

<400> 26

Ala Phe Ile Glu Glu Arg Asn Tyr Ile
1 5

<210> 27

<211> 10

<212> PRT

<213> Homo sapiens

<400> 27

Glu Tyr Thr Ala Arg Glu Gly Ala Lys Phe
1 5 10

<210> 28
<211> 9
<212> PRT
<213> Homo sapiens

<400> 28
Thr Asn Pro Glu Val Ile Gln Asn Leu
1 5

<210> 29
<211> 9
<212> PRT
<213> Homo sapiens

<400> 29
Asn Leu Asp Asn Gly Gly Phe Tyr Ile
1 5

<210> 30
<211> 9
<212> PRT
<213> Homo sapiens

<400> 30
Leu Leu Ile Arg Asn Gly Ser Glu Val
1 5

<210> 31
<211> 9
<212> PRT
<213> Homo sapiens

<400> 31
Arg Leu Ile Glu Asp Asn Glu Tyr Thr
1 5

<210> 32
<211> 9
<212> PRT
<213> Homo sapiens

<400> 32
Arg Leu Val Arg Leu Tyr Ala Val Val
1 5

<210> 33
<211> 9
<212> PRT
<213> Homo sapiens

<400> 33
Val Leu Glu Asp Phe Phe Thr Ala Thr

1 5

<210> 34
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 34
 Ser Met Ser Pro Asp Ala Phe Leu Ala
 1 5

<210> 35
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 35
 Lys Gln Leu Gln His Gln Arg Leu Val
 1 5

<210> 36
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 36
 Phe Leu Ile Arg Glu Ser Glu Ser Thr
 1 5

<210> 37
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 37
 Arg Leu Leu Ile Arg Asn Gly Ser Glu Val
 1 5 10

<210> 38
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 38
 Gly Leu His Glu Leu Val Arg His Tyr Thr
 1 5 10

<210> 39
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 39

Lys	Pro	Trp	Trp	Glu	Asp	Glu	Trp	Glu	Val
1				5					10

<210> 40

<211> 10

<212> PRT

<213> Homo sapiens

<400> 40

Lys	Ile	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Leu
1				5					10

<210> 41

<211> 10

<212> PRT

<213> Homo sapiens

<400> 41

Lys	Leu	Thr	Thr	Asn	Lys	Leu	Leu	Asp	Met
1				5					10

<210> 42

<211> 10

<212> PRT

<213> Homo sapiens

<400> 42

Phe	Ile	Pro	Phe	Asn	Phe	Val	Ala	Lys	Ala
1				5					10

<210> 43

<211> 10

<212> PRT

<213> Homo sapiens

<400> 43

Arg	Leu	Gly	Ala	Ala	Gln	Phe	Gly	Glu	Val
1				5					10

<210> 44

<211> 9

<212> PRT

<213> Homo sapiens

<400> 44

Glu	Val	Pro	Arg	Glu	Thr	Leu	Lys	Leu
1				5				

<210> 45

<211> 10

<212> PRT

<213> Homo sapiens

<400> 45

Ile Val Arg Leu Asp Gly Lys Asp Arg Leu
1 5 10